



7AF7

MEDIUM-MU TWIN TRIODE

7AF7
7AG7

Heater, for Unipotential Cathode:

Voltage. 6.3[□] ac or dc volts
Current. 0.3^{□□} amp

The 7AF7 is the same as the 14AF7 except for heater rating.

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.32 ampere.

7AG7

SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3[□] ac or dc volts
Current. 0.15^{□□} amp

Direct Interelectrode Capacitances:[○]

Grid No.1 to Plate . . . 0.005 max. μ f
Input. 7 μ f
Output 6 μ f

○ With external shield connected to cathode.

Mechanical:

Mounting Position. Any

Maximum Overall Length 2-25/32"

Maximum Seated Length. 2-1/4"

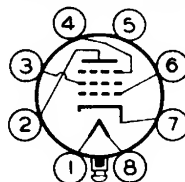
Maximum Diameter 1-3/16"

Bulb T-9

Base Lock-in 8-Pin

Basing Designation for BOTTOM VIEW 8V

Pin 1-Heater
Pin 2-Plate
Pin 3-Grid No.2
Pin 4-Grid No.3
Pin 5- Internal
Shield



Pin 6-Grid No.1
Pin 7-Cathode
Pin 8-Heater

Plug - Base
Shell

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE 300 max. volts

PLATE DISSIPATION. 2 max. watts

GRID-No.2 DISSIPATION. 0.75 max. watt

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Negative bias value. 1 min. volt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 90 max. volts

Heater positive with respect to cathode. 90 max. volts

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.16 ampere.

JUNE 15, 1948

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Typical Operation and Characteristics:

Plate Voltage.	250	. .	volts
Grid No.3 (Suppressor) .	Connected to cathode at socket		
Internal Shield.	Connected to cathode at socket		
Grid-No.2 Voltage.	250	. .	volts
Cathode-Bias Resistor*	250	. .	ohms
Plate Resistance (Approx.)	0.75	. .	megohm
Transconductance	4200	. .	μ mhos
Grid-No.1 Bias (Approx.) for			
plate current of 10 μ a	-10	. .	volts
Plate Current.	6	. .	ma
Grid-No.2 Current.	2	. .	ma

* Fixed-bias operation is not recommended.

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